CLAIMS

What is claimed is:

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A system for displaying visual information, comprising:
 a display element;

said display element having means of retaining an array element address; said display element having means of comparing said address with a received signal;

said display element adapted to extract a display setting upon finding an address match;

said display element adapted to provide a display output according to the extracted display setting;

a display element controller;

said display element controller adapted to generate a signal to a plurality of

said display element controller adapted to generate a signal containing a sequence of display settings in an ordered pattern consistent with the addressing of said array elements.

A system as recited in claim 1, wherein the means for retaining an array
 element address comprises cells of a non-volatile memory.

- 3. A system as recited in claim 1, wherein the means of comparing address comprises a comparator which compares the present address within the received signal to an address retained within the display element.
- 4. A display element for use in a display array which receives at least one display signal containing a series of display setting values for the elements within the array, comprising:

a digital circuit for retaining an address value;

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an address comparison circuit for comparing the retained address with the received signal;

an data store which extracts a display setting from the display signal upon an address match being detected; and

a visual output which is set in response to the extracted display setting.

- 5. A controller for the display element recited in claim 4.
- 6. A method of driving display elements, comprising: generating a display signal containing a series of display settings in a pattern from which a display element address may be determined;

transmitting said signal to an array of synchronous display element;
receiving said signal within a synchronous display element;
detecting an address match for the display element within the signal;

extracting the display setting from the signal for the display element; and outputting a display setting in response to the extracted display setting.

7. A method of programming an array address within an element of an array,
 5 comprising:

an address:

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configuring display elements with an optical detector
configuring display elements with a non-volatile section of memory for retaining

optically coupling a programming array to the array of display elements; engaging the address programming for the displaying elements; and loading the address embedded within the signal in response to the detection of sufficient light input.

- _____8.___8 display_array_having_a_plurality_of_multiple_display_elements_which_are_____15 individually addressable by an attached controller, comprising:
 - (a) an array support member configured with power and ground connections;
 - (b) a controller operatively coupled to the power and ground connections of said array support member and capable of applying a voltage between the power and ground connections, wherein the controller is further capable of superimposing data signals on said voltage; and
 - (c) a plurality of display elements operatively connected to the power and ground of said support member, each display element being configured to extract the

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data signals from the voltage provided by the controller, wherein a display element, such as an LED or incandescent element, is activated according to the data if the address of the data matches that of the display element.